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## The Delphion Integrated View

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[News, Profiles, Stocks and More about this company](#)Published / Filed: **March 16, 2001 / Aug. 24, 1999**Application Number: **JP1999000279827**IPC Code: **H02J 7/35; H01L 31/04;**Priority Number: **Aug. 24, 1999 JP1999000279827**

Abstract:

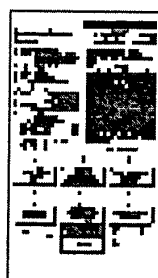
**PROBLEM TO BE SOLVED:** To always ensure power, regardless of the time and wherever the location may be by always carrying solar batteries to obtain power outdoors and collecting the power obtained from the solar batteries in a charge for charging a battery.

**SOLUTION:** Solar batteries 1 are installed to the watch strap of a wristwatch, a wrist band, clothing such as a belt on pants or skirts, a cap or hat, a jacket, a vest, a coat, and a poncho, or a bag such as a shoulder bag and a second bag. When an electrical appliance for direct current is used, its plug is inserted into an outlet 5 for direct current or a jack 6 for direct current to make the electrical appliance usable. When an electrical appliance for alternating current is used, its plug is inserted into an outlet 7 for alternating current or a jack 8 for alternating current through an inverter to make the electrical appliance usable.

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(19)

(11) Publication number: **2001069686 A**

Generated Document.

**PATENT ABSTRACTS OF JAPAN**(21) Application number: **11279827**(51) Intl. Cl.: **H02J 7/35 H01L 31/04**(22) Application date: **24.08.99**

(30) Priority: (43) Date of application publication: <b>16.03.01</b> (84) Designated contracting states:	(71) Applicant: <b>TSUTSUI OSAMI</b> (72) Inventor: <b>TSUTSUI OSAMI</b> (74) Representative:
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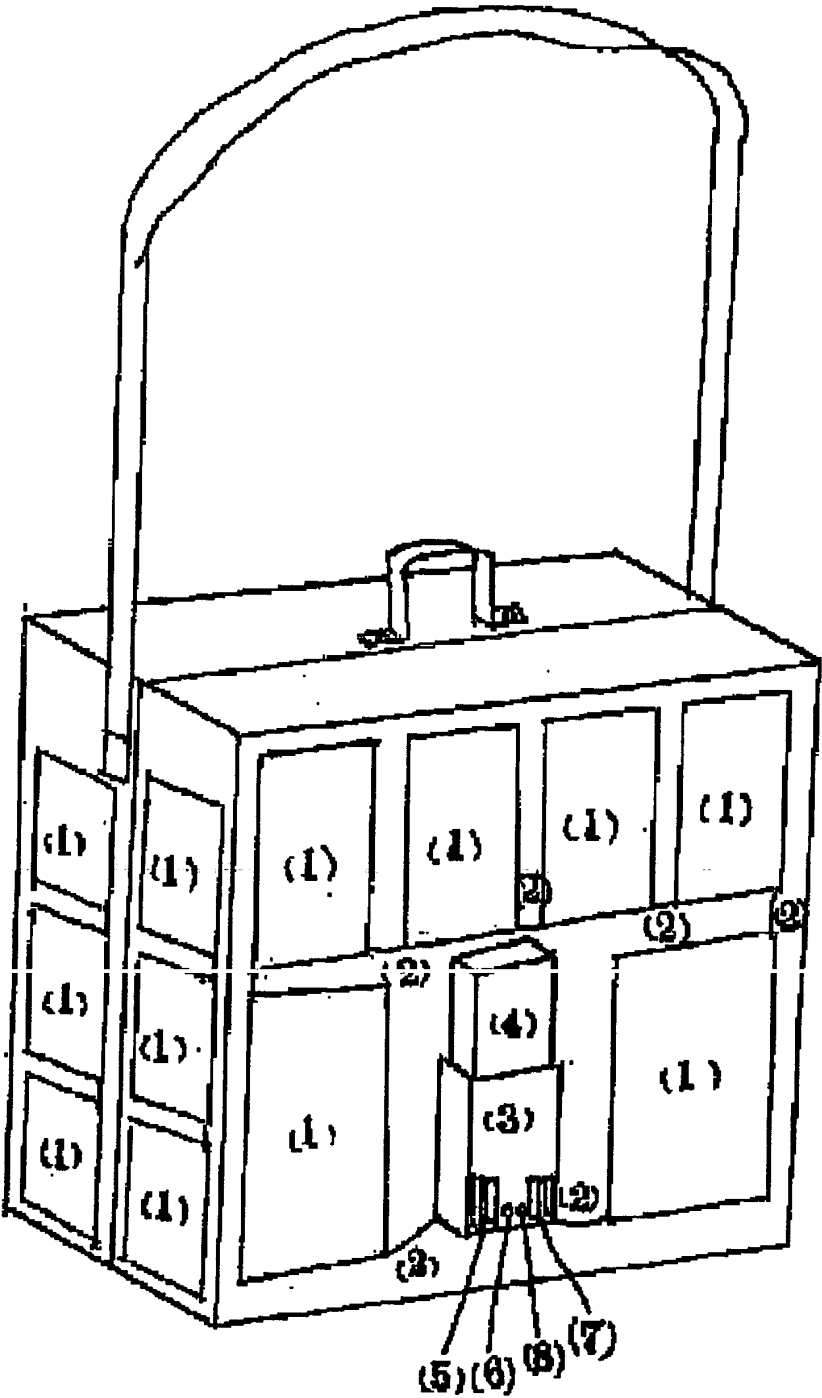
**(54) PORTABLE CHARGER**

(57) Abstract:

**PROBLEM TO BE SOLVED:** To always ensure power, regardless of the time and whatever the location may be by always carrying solar batteries to obtain power outdoors and collecting the power obtained from the solar batteries in a charge for charging a battery.

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(19) 日本国特許庁 (J P)

(12) 公開特許公報 (A)

(11) 特許出願公開番号  
特開2001-69686  
(P2001-69686A)

(43) 公開日 平成13年3月16日 (2001.3.16)

(51) Int.Cl. <sup>7</sup>	識別記号	F I	テームコード* (参考)
H 0 2 J 7/35		H 0 2 J 7/35	H 5 F 0 5 1
H 0 1 L 31/04		H 0 1 L 31/04	Q 5 G 0 0 3

審査請求 未請求 請求項の数 1 書面 (全 4 頁)

(21) 出願番号 特願平11-279827

(22) 出願日 平成11年8月24日 (1999.8.24)

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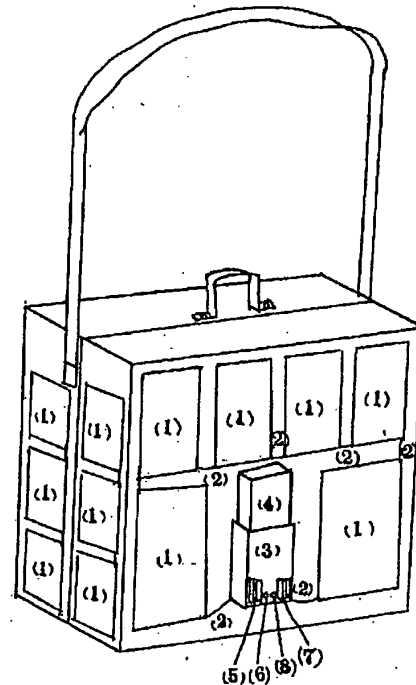
Fターム (参考) 5F051 BA04 BA05 EA01 JA02 JA17  
5G003 AA06 BA01 FA01

(54) 【発明の名称】 ポータブル充電器

(57) 【要約】

【課題】 いつ、いかなる場所においても、どんな電気製品でも使用できるようにする。

【解決手段】 人が、身に付けたり手に持ったりすることのできる、衣類や帽子類やベルト類や鞆類に太陽電池や充電器を設置して、いつ、いかなる所にいても、電力を確保できるようにする。



【特許請求の範囲】

【請求項1】衣服、帽子、腕時計のバンド、リストバンド、ベルトやカバン等人が身に付けたり持ったりすることのできる物と太陽電池からなるポータブル電力供給装置。

【発明の詳細な説明】

【0001】

【発明の属する技術分野】本発明は、ポータブル電気器具、あるいは戸外において電力を利用して使用可能となる器具に対して、電池切れやバッテリー切れが起こらないようにするためのものであり、さらには、どんな電気器具でも戸外で使えるようにするためのものである。

【0002】要するに、戸外にいても電気を利用する用具に、いつ、いかなる場所においても常に、充電満タンの電池やバッテリーを提供し、さらには、戸外において、電気器具のコンセントやジャック電力を直接提供することのできる装置である。

【0003】

【従来の技術】今までのポータブル電気器具、例えば携帯電話やPHS、ビデオカメラ、ラップトップ型コンピューター、ポータブルラジオ、ポータブルテレビ、ポータブル録音機、ポータブルCD、電気カミソリ、電動工具等は、全て電池やバッテリーを利用して戸外で使用する事が可能であった。

【0004】しかしこれらの器具、電池やバッテリーが切れると作動しなくなるという欠点があった。

【0005】

【発明が解決しようとする課題】本発明は、この電池切れやバッテリー切れをなくし、これらの電気器具のために、いつ、いかなる場所であろうと常に電力を確保しようとしたものである。

【0006】

【課題を解決するための手段】戸外で電力を得るためには、太陽電池を利用すればよい。常に太陽電池を持っていて、太陽電池から得た電力を充電器に集めてバッテリーに充電することができれば、戸外にいてもバッテリー切れを心配することはなくなり、常に電力を満タンにしたバッテリーを用意することができる。また、充電器に、コンセントやジャックの差し込み口を設け、インバーターを備えれば家庭用電気器具でも戸外で使用可能となる。

【0007】そこで、太陽電池を、人間の社会活動に支障なく持ち運びながら起電するにはいかにするか。このためには、腕時計のバンドやリストバンド、ズボンやスカートのベルト、さらには、帽子、上着、チョッキ、コート、ボンチョ等の衣類や鞆等、身に付けたり、持ったりする物に太陽電池を取り付ければよい。コンセントやジャックの差し込み口をつけた充電器やインバーターもとりにつけておけば便利である。

【0008】

【発明の実施の形態】以下、図面を参照しつつ、本発明を詳細に説明する。図1は手提げ鞆や、ショルダーバッグ、セカンドバック、リュックサック等の鞆類に設置したポータブル充電器である。

【0009】図2は(3)の安定器やインバーターを備えた充電器を鞆の中に設置したポータブル充電器である。

【0010】図3はジャケットや背広の上着、コードやチョッキ、ボンチョ等の衣類設置したポータブル充電器である。

【0011】図4は帽子類に設置したポータブル充電器である。

【0012】図5はベルト類に設置したポータブル充電器である。

【0013】鞆類や衣類、帽子類、ベルト類等に設置した太陽電池(1)に光が当たり起電する。

【0014】起電された電力が、(2)の配線コードを流れて(3)の安定器やインバーターを備えた充電器に集電される。

【0015】充電器から充電を受けて(4)のバッテリーに電力が充電される。

【0016】直流用の電気器具は、(5)の直流用コンセント口や、(6)の直流用ジャック口にコンセントやジャックを差し込むことによって、使用可能となる。

【0017】交流用の電気器具は、インバーターを通して(7)の交流用コンセント口や、(8)の交流用ジャック口に、コンセントやジャックを差し込むことによって、使用可能となる。

【0018】(3)の安定器やインバーターを備えた充電器は、充電するバッテリーや電気器具の形態によって、取り替えたり、形を変えることができるようにしておくことができる。

【図面の簡単な説明】

【図1】鞆類に設置したポータブル充電器

【図2】鞆の中に充電器を設置したポータブル充電器

【図3】衣類に設置したポータブル充電器

【図4】帽子類に設置したポータブル充電器

【図5】ベルト類に設置したポータブル充電器

【符号の説明】

(1) ; 太陽電池

(2) ; 配線コード

(3) ; 安定器やインバーターを備えた充電器

(4) ; バッテリー、または電気器具

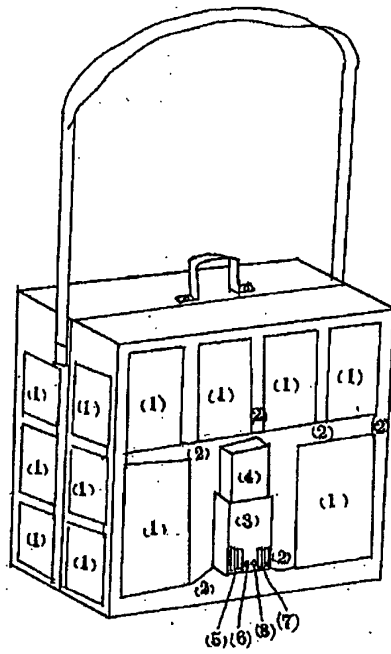
(5) ; 直流用電気器具のコンセントの差し込み口

(6) ; 直流用電気器具のジャックの差し込み口

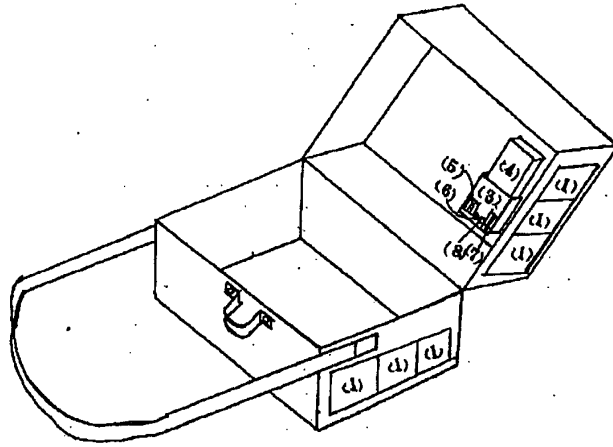
(7) ; 交流用電気器具のコンセントの差し込み口

(8) ; 交流用電気器具のジャックの差し込み口

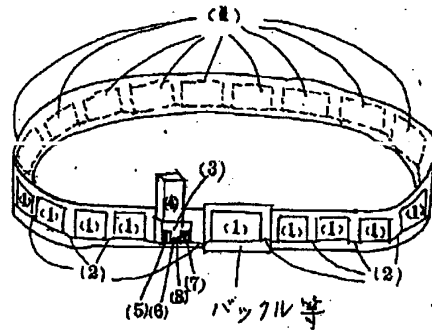
【図1】



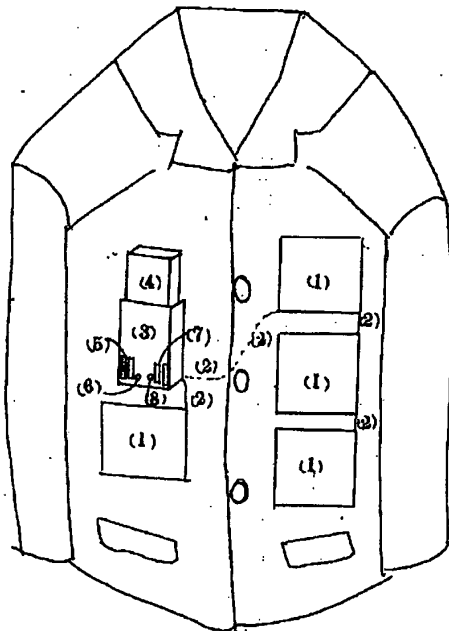
【図2】



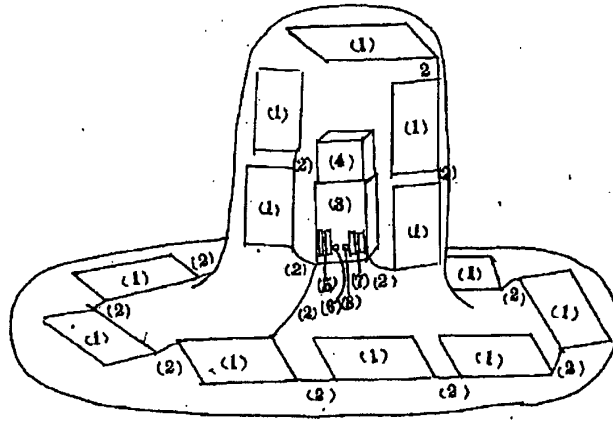
【図5】



【図3】



【図4】



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CLAIMS

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[Claim(s)]

[Claim 1] The portable power supply which consists of an object which men, such as clothes, a hat, a band of a wrist watch, a wristband, a belt, and a bag, can attach or have in the body, and a solar battery.

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## DETAILED DESCRIPTION

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[Detailed Description of the Invention]

[0001]

[The technical field to which invention belongs] this invention is for making it neither a cell piece nor a dc-battery piece happen to a portable electric appliance or the instrument which becomes usable in outdoors using power, and is for using any electric appliances in the open air further.

[0002] the tools which, in short, use the electrical and electric equipment even if it is out of doors -- when -- what place -- also setting -- always -- charge -- it is equipment which can offer a full cell and a full dc-battery and can offer the plug socket and jack power of an electric appliance directly in outdoors further

[0003]

[Description of the Prior Art] An old portable electric appliance, for example, a cellular phone and PHS, a video camera, a laptop computer, portable radio, portable television, a portable sound recorder, portable CD, an electric shaver, a power tool, etc. can use all in the open air using a cell or a dc-battery.

[0004] However, there was a fault of stopping operating, if these instruments, a cell, and a dc-battery are turned off.

[0005]

[Problem(s) to be Solved by the Invention] this invention loses this cell piece and dc-battery piece, and for these electric appliances, whenever what place it is when, it tends to secure power.

[0006]

[Means for Solving the Problem] What is necessary is just to use a solar battery, in order to obtain power in the open air. If it always has a solar battery, the power obtained from the solar battery can be brought together in a battery charger and a dc-battery can be charged, even if it is out of doors, worrying about a dc-battery piece disappears and it can prepare the dc-battery which always made power full. Moreover, if the opening of a plug socket or a jack is formed in a battery charger and it is equipped with an inverter, a home electric appliance will also become usable in outdoors.

[0007] Then, what is a solar battery carried out for carrying out electromotive, carrying convenient to human being's social activity? What is necessary is for that just to attach a solar battery in the belt of the band and wristband of a wrist watch, trousers, or a skirt board, and objects which it attaches or has in the body, such as clothing, bags, etc., such as a hat, a coat, a vest, a coat, and a poncho, further. It is convenient if the battery charger and inverter which attached the opening of a plug socket or a jack are also attached.

[0008]

[Embodiments of the Invention] Hereafter, this invention is explained in detail, referring to a drawing. Drawing 1 is the portable battery charger installed in bags, such as a handbag bag, and a shoulder bag, the second back, a rucksack.

[0009] Drawing 2 is the portable battery charger which installed the battery charger equipped with the stabilizer and inverter of (3) into the bag.

[0010] Drawing 3 is portable battery chargers which carried out clothing installation, such as a coat of a jacket or a suit, a code, and a vest, a poncho.

[0011] Drawing 4 is the portable battery charger installed in hats.

[0012] Drawing 5 is the portable battery charger installed in belts.

[0013] Light hits and carries out electromotive to the solar battery (1) installed in bags, clothing, hats, and belts.

[0014] A current is collected by the battery charger with which the power by which electromotive was carried out flowed the wiring code of (2), and was equipped with the stabilizer and inverter of (3).

[0015] In response to charge, power is charged by the dc-battery of (4) from a battery charger.

[0016] The electric appliance for a direct current becomes usable by inserting a plug socket and a jack in the plug socket mouth for a direct current of (5), and the jack mouth for a direct current of (6).

[0017] The electric appliance for an alternating current becomes usable by inserting a plug socket and a jack in the plug socket mouth for an alternating current of (7), and the jack mouth for an alternating current of (8) through an inverter.

[0018] The battery charger equipped with the stabilizer and inverter of (3) can be exchanged, or can enable it to change a form according to the gestalt of the dc-battery to charge or an electric appliance.

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**TECHNICAL FIELD**

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[0002] the tools which, in short, use the electrical and electric equipment even if it is out of doors -- when -- what place -- also setting -- always -- charge -- it is equipment which can offer a full cell and a full dc-battery and can offer the plug socket and jack power of an electric appliance directly in outdoors further

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**PRIOR ART**

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**TECHNICAL PROBLEM**

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**MEANS**


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## DESCRIPTION OF DRAWINGS

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[Brief Description of the Drawings]

[Drawing 1] The portable battery charger installed in bags

[Drawing 2] The portable battery charger which installed the battery charger into the bag

[Drawing 3] The portable battery charger installed in clothing

[Drawing 4] The portable battery charger installed in hats

[Drawing 5] The portable battery charger installed in belts

[Description of Notations]

(1); solar battery

(2); wiring code

(3); the battery charger equipped with the stabilizer or the inverter

(4); a dc-battery or an electric appliance

(5); the opening of the plug socket of the electric appliance for a direct current

(6); the opening of the jack of the electric appliance for a direct current

(7); the opening of the plug socket of the electric appliance for an alternating current

(8); the opening of the jack of the electric appliance for an alternating current

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[Translation done.]



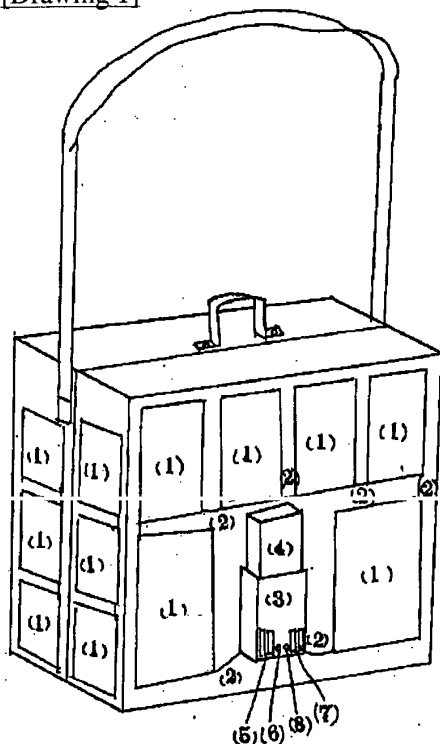
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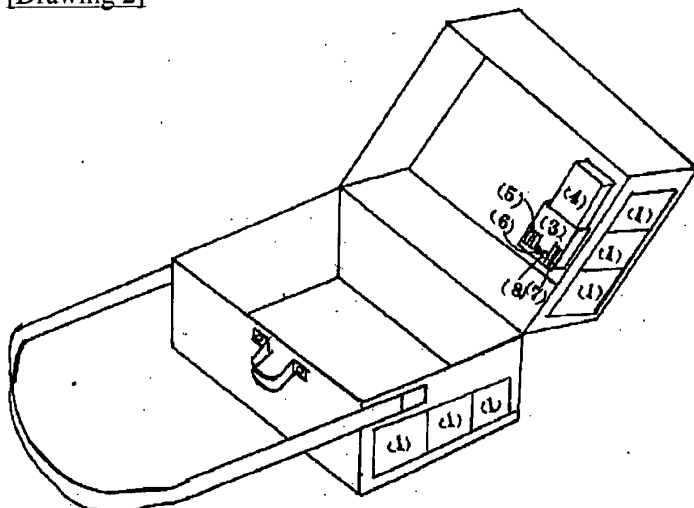
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## DRAWINGS

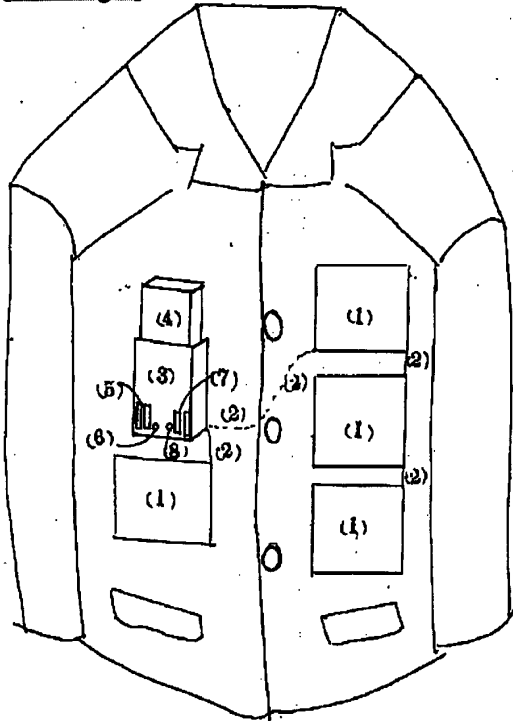
[Drawing 1]



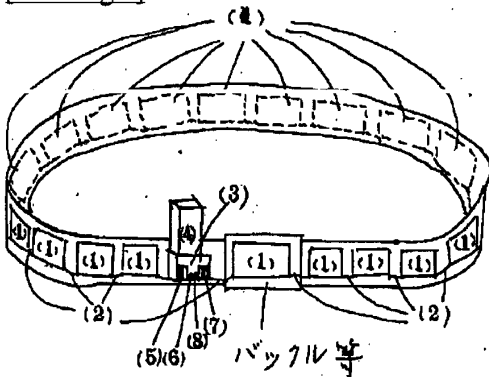
[Drawing 2]



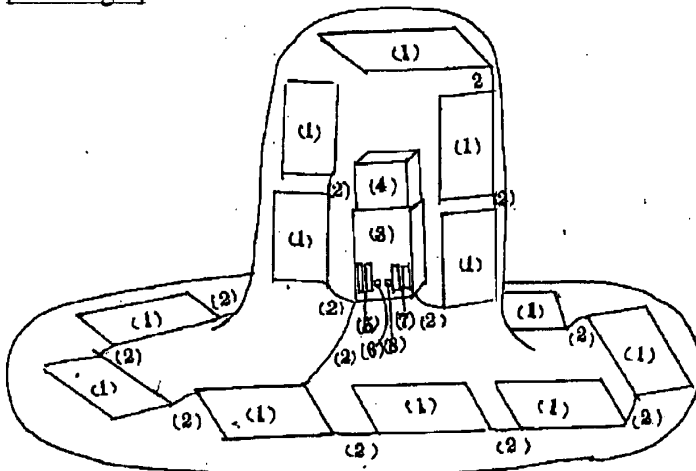
[Drawing 3]



[Drawing 5]



[Drawing 4]



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[Translation done.]